Unified Build Development Environment (UBDEV) 3.0.2.5

Version Description Document

1. System Overview

The Unified Build Development Environment (UBDEV) provides the Application Programmer's Interfaces (APIs) and tools to allow segment developers to develop software to interact with the Track Management Services and Universal Communications Processes of Unified Build Core DII COE Core Component.

The host computers for the Defense Information Infrastructure (DII) Common Operating Environment (COE) are the Tactical Advanced Computer, version 3/4 (TAC-3/TAC-4) with the HP-UX 10.20 operating system and the Sparc 10/20 with Solaris 2.5.1 operating system.

2. Applicable Documents

- Application/TDA Toolkit API

    - 3.0.2   (DII COE SDE-API-APP-3.0.2 9/30/96)
    - No update required for UB 3.0.2.5

- Comms Service API

    - 3.0.2   (DII COE SDE-API-COMMS-3.0.2 9/30/96)
    - No update required for UB 3.0.2.5

- Help Services API

    - 3.0.2   (DII COE SDE-API-HELP-3.0.2 9/30/96)
    - 3.0.2.5 update (See Section 3.1, Inventory of Materials Released)

- Tdbm Service API

    - 3.0.2   (DII COE SDE-API-TDBM-3.0.2 9/30/96)
    - 3.0.2.5 update (See Section 3.1, Inventory of Materials Released)

3. Version Description

3.1 Inventory of Materials Released

Magnetic media:

The UBDEV Version 3.0.2.5 Segment on a 4mm DAT cartridge is intended for:

- TAC-3/TAC-4 hardware environment. The UBDEV version 3.0.2.5 segment can be run on DII COE Kernel Version 3.0.1.0 supporting HP-UX 10.20.

The UBDEV Version 3.0.2.5 Segment on an 8mm EXABYTE cartridge is intended for:

- Sparc 10/20 hardware environment. The UBDEV version 3.0.2.5 segment can be run on DII COE Kernel Version 3.0.0.3P2 supporting Solaris Operating System Version 2.5.1.

Documents:

- Unified Build Development Environment (UBDEV) 3.0.2.5 Version Description Document (UBDEV3.0.2.5:VDD1.0   4/14/97)

- Installation Procedures for the UBDEV Tape (UB Development Environment) of Unified Build (UB) 3.0.2.5 (UBDEV3.0.2.5:IP1.0   4/14/97)

- Help API 3.0.2.5 Update (DSDE3.0.2.5:Help   4/14/97)

- Tdbm API 3.0.2.5 Update (DSDE3.0.2.5:Tdbm   4/14/97)

3.2 Software Changes

None for the development environment. Changes for the Unified Build software are listed in the Unified Build Core (TMS/UCP) 3.0.2.5 Version Description Document.

4. Impact on Developers

A. Segment developers will be required to:

- Change references from "libM.sl" to "libMlib.sl".

- For map capabilities, use NIMA Joint Mapping Toolkit (JMTK) based on Joint Mapping Toolkit Visualization Component 3.0.2.5 for the 3.0.2.5 delivery. Any previous versions of JMTK are totally incompatible with UB 3.0.2.5.

- Recompile and relink on the appropriate platform(s) with the DII COE and API libraries. Recompile and relink are required when upgrading from UB 3.0.2.4 or earlier build.

- Use the delivered version of DII COE ConvertSeg and VerifySeg tools to create and verify segments.

B. Bug in COEInstaller

Developers need to be aware of a bug in the COEInstaller, with respect to the environment variable $INSTALL_DIR. This environment variable is **not** set until **after** the DEINSTALL script has run. Therefore, if developers use the $INSTALL_DIR variable without setting it up in their DEINSTALL script, the deinstall will fail.

The problem arises if developers use their $INSTALL_DIR as follows, without the variable being previously initialized:

```
if ($?INSTALL_DIR) then

   setenv XXX_HOME   $INSTALL_DIR

else

   setenv XXX_HOME   /h/XXX

endif
```

When more than one segment is deinstalled at the same time, the $INSTALL_DIR for the last segment deinstalled is used rather than the home directory of the developer's segment. Therefore, it is necessary to manually set the $INSTALL_DIR variable in the DEINSTALL script by adding this code at the beginning of the script:

```
unset INSTALL_DIR
set INSTALL_DIR = /h/XXX
```

where XXX = the name of the segment directory